

CLAIMS

What is claimed is:

1. A termination card comprising:

a substrate having groups of fingers on a first side of the substrate and groups of fingers

5 on a second side of the substrate; and

wherein some of the groups of fingers on the first side and some of the groups of fingers on the second side are connected through module connectors, and others of the groups of fingers on the first side are coupled to on module terminations on the first side.

2. The termination card of claim 1, wherein still others of the groups of fingers on

10 the first side are coupled to the second side to other on module terminations.

3. The termination card of claim 1, wherein the on module terminations are in

groups that correspond to the others of the groups of fingers on the first side.

4. The termination card of claim 1, wherein the on module terminations are created

from resistor elements.

15 5. A termination card comprising:

a substrate having groups of fingers on a first side of the substrate and groups of fingers

on a second side of the substrate; and

wherein some of the groups of fingers on the first side and some of the groups of fingers on the second side are connected through module connectors, but some of the groups of fingers on the first side are coupled to the second side to on module terminations.

20 6. The termination card of claim 5, wherein still others of the groups of fingers on

the first side are coupled to other on module terminations on the first side.

7. The termination card of claim 5, wherein the on module terminations are in

groups that correspond to the others of the groups of fingers on the first side.

25 8. A termination card comprising:

a substrate having groups of fingers on a first side of the substrate and groups of fingers

on a second side of the substrate; and

wherein some of the groups of fingers on the first side and some of the groups of fingers on the second side are connected through module connectors, and at least one other of the groups

of fingers on the first side are coupled to at least one group of on module terminations on the first side.

9. The termination card of claim 8, wherein still others of the groups of fingers on the first side are coupled to the second side to other on module terminations.

5 10. A system comprising:

a first module and a termination card;

a circuit board including first and second module connectors to receive the first module and the termination card, respectively;

10 a first data path of conductors extending from the circuit board to the first module connector, to the first module, back to the first module connector, to the circuit board, to the second module connector, to the termination card, and to on module terminations of the termination card; and

15 a second data path of conductors extending from the circuit board to the second module connector, to the termination card, back to the second module connector, to the circuit board, to the first module connector, to the first module, and to on module terminations of the first module.

11. The system of claim 10, wherein the termination card includes:

20 a substrate having groups of fingers on a first side of the substrate and groups of fingers on a second side of the substrate; and

wherein some of the groups of fingers on the first side and some of the groups of fingers on the second side are connected through module connectors, and others of the groups of fingers on the first side are coupled to on module terminations on the first side.

12. The system of claim 11, wherein still others of the groups of fingers on the first side are coupled to the second side to other on module terminations.

13. The system of claim 10, wherein the termination card includes:

25 a substrate having groups of fingers on a first side of the substrate and groups of fingers on a second side of the substrate; and

wherein some of the groups of fingers on the first side and some of the groups of fingers on the second side are connected through module connectors, but some of the groups of fingers on the first side are coupled to the second side to on module terminations.

14. The system of claim 13, wherein still others of the groups of fingers on the first side are coupled to other on module terminations.

15. The system of claim 10, wherein the first and second module connectors each have front sides and back sides, and the first path extends from the back side of the first module to the back side of the termination card.

16. The system of claim 10, wherein the first and second module connectors each have front sides and back sides, and the first path extends from the back side of the first module to the front side of the termination card.

17. The system of claim 10, wherein the first module and termination card and first and second module connectors are keyed so the first module and the termination card each may be received in only one rotational orientation.

18. The system of claim 10, wherein the first module and termination cards are interchangeable so that the first module may be received by the second module connector and the termination card may be received by the first module connector without rotating the orientation of either module.

19. The system of claim 10, further comprising a buffer on the first module, but not on the termination card.

20. The system of claim 10, further comprising error correction code chips on the first module, but not on the termination card.

21. The system of claim 10, further comprising a controller, wherein the first module connector is closer to controller than is the second module connector.

22. The system of claim 10, further comprising a second module.

23. The system of claim 10, wherein the circuit board is a printed circuit board and a motherboard.

24. The system of claim 10, wherein the termination card is shorter than the module.